



You can read the recommendations in the user guide, the technical guide or the installation guide for HONEYWELL RTH110B. You'll find the answers to all your questions on the HONEYWELL RTH110B in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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RTH110B

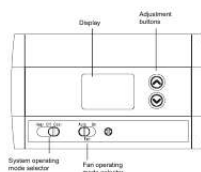
Non-programmable Electronic Thermostat
Installation and User Guide

1. Introduction

The RTH110B non-programmable thermostat can be used to control:

- a gas, fuel oil or electric furnace - 2 or 3 wires
- a central air conditioner - 2 or 3 wires
- a hot water system with or without pump - 2 wires
- a millivolt system - 2 wires
- a central heating and cooling system - 4 or 5 wires

Note: This thermostat is not compatible with heat pumps or multi-stage systems.



Features

- System operating mode selection: heat, cool or off
- Fan operating mode selection: automatic or on (continuous)
- Programmable heating and cooling cycle lengths: 10, 12, 15, 20 or 30 minutes
- Temperature display in °F or °C
- Battery replacement indicator

2. Installation

2.1 Removing the Old Thermostat

IN ORDER TO AVOID ANY RISK OF ELECTRIC SHOCK, CUT POWER TO THE HEATING SYSTEM.

- 1 Remove the old thermostat to access the wires.

Attention: If the old thermostat was mounted onto an electrical box, it was probably powered by 120/240 volts. In this case, this thermostat cannot be used.

- 2 Identify and label each wire (with the corresponding letter on the wire terminal) and remove them from the terminals.
- 3 If necessary, strip the end of each wire (maximum of 1/4 inch).

- 4 Wrap the wires around a pencil to prevent them from falling into the wall.

- 5 If the hole in the wall is too big, insulate it using a non-flammable material in order to avoid air draughts behind the thermostat.



2.2 Installing the New Baseplate

For a new installation, choose a location approximately 5 feet (1.5 m) above the floor and on an inside wall. Avoid draughty areas (top of staircase, air outlet, etc.), dead air spots (behind doors), direct sunlight or areas near concealed pipes or chimneys.



- 1 Remove the thermostat faceplate.
- 2 Loosen the locking screw to separate the thermostat from its baseplate (the screw cannot be completely removed).



- 3 Tilt the thermostat upwards.
- 4 Mark and bore the appropriate mounting holes (or use the existing holes). Insert the plastic anchors.
- 5 Pass the wires through the opening of the baseplate and fix the baseplate to the wall using the screws provided.

2.3 Connecting the Thermostat

The connection of the new thermostat should be similar to that of the old thermostat; however, it can vary depending on the installation.

Rh	Heating power supply
Rc	Cooling power supply
W	Heating signal
Y	Cooling signal
G	Fan

Note: The red jumper wire between the Rc and Rh terminals must be removed in 2- or 5-wire installations. The jumper must be used in 3- or 4-wire installations if you wish to use the mode selector switch for the fan.

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Manual abstract:

By default, the setpoint is 70°F (21°C). 2.3.4 3-wire Cooling 2.6 Completing the Installation Cool relay Fan relay 2.3.5 4-wire Heating and Cooling Once the baseplate and the batteries are installed, mount the thermostat on the baseplate. Heat relay Cool relay Fan relay Secure the thermostat using the locking screw and install the faceplate. Apply power back to the system. 2.

3.6 5-wire Heating and Cooling 3. Basic Functions 3.1 System Operating Mode Use the selector switch to place the system in Heating mode (HEAT) or Cooling mode (COOL), or to turn the system off. Fan relay Heat relay Cool relay Note: When you place the thermostat in Cooling mode, you might need to wait up to five minutes before cooling can start.

This is a safety feature for the compressor. will flash on the screen until cooling can start again. RTH110B 69-1799 2/6/05 2/3 3.2 Fan Operating Mode Use the selector switch to set the fan to automatic mode (AUTO) or continuous mode (ON). Note: This switch is not used if you have a 2-wire installation as the fan is not connected to the thermostat.

· · AUTO If you have an electric furnace (see section 2.4), the fan works only when heating or cooling is activated. If you have a gas or fuel oil furnace (see section 2.4), the fan works as follows: · When the thermostat is placed in cool mode, the fan works only when cooling is activated. · When the thermostat is placed in heat mode, the fan is controlled by the furnace fan control circuitry. 5. Technical Specifications Power supply: 2 AA batteries Maximum load: 1 A @ 24 Vac per output Setpoint range (heating): 41 to 82°F (5 to 28°C) Setpoint range (cooling): 59 to 95°F (15 to 35°C) Display range: 23 to 122°F (-5 to 50°C) Storage temperature: -2 to 122°F (-20 to 50°C) Temperature display resolution: 1°F (0.5°C) Accuracy: ± 1°F (0.5°C) Heating/cooling cycle lengths: 10, 12, 15, 20 or 30 minutes (programmable) Compressor short-cycle protection (minimum off time): 5 minutes Data memory: non-volatile Dimensions: 5 in. x 3 in.

x 1 in. (127 mm x 75 mm x 28 mm) ON The fan is always on. 3.3 Displaying the Temperature The actual temperature is normally displayed. To view the setpoint, press once on either of the buttons. The setpoint is displayed for 5 seconds along with the icon. Note: Pressing any of the the setpoint. buttons more than once will change 6. Warranty Honeywell warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of one (1) year from the date of purchase by the consumer. If at any time during the warranty period the product is determined to be defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option).

If the product is defective, (i) return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or (ii) call Honeywell Customer Care at 1-800-468-1502. Customer Care will make the determination whether the product should be returned to the following address: Honeywell Return Goods, Dock 4 MN10-3860, 1885 Douglas Dr N, Golden Valley, MN 55422, or whether a replacement product can be sent to you. This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer. Honeywell's sole responsibility shall be to repair or replace the product within the terms stated above.

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